



FEATURES Seq primer: T7.  
source Location/Qualifiers  
1. 469  
/organism="Arabidopsis thaliana"  
/strain="var columbia"  
/note="vector: lambda Zip-Lox; Site\_1: Sal; Site\_2: Not;  
lambda PRL2 is a cDNA library derived from equal  
quantities of 4 pools of mRNA. The mRNA sources were 1) 7  
day germinated etiolated seedlings; 2) tissue culture  
grown rots; 3) staged plants half with 24 hour light  
cycle, half on 16 hr light, 8 hour dark- rosettes; 4)  
same plants as 3 but aerial tissue (stems, flowers and  
siliques. The vector is BRL's lambda Zip-Lox. The cDNA  
inserts were directionally cloned with Sal-Not arms using  
Oligo dT primed cDNA."  
/db\_xref="taxon:3702"  
/clone="249J4T"  
/clone\_lib="Lambda-PRL2"  
BASE COUNT ORIGIN  
133 a 96 c 109 g 115 t 16 others  
alignment\_scores:  
Quality: 73.00 Length: 26  
Ratio: 3.650 Gaps: 1  
Percent Similarity: 76.923 Percent Identity: 42.308  
alignment\_block:  
align seg 1/1 to reverse of: AA713321.rev ..  
144 ValGlySer\*\*\*LeuLeuAlaAspPheArgLysGlyPhePhe 160  
301 CTTGGGAGTCCTTGCCAGTAATGTTACAGAGAGGATGATCTCT 252  
160 heTPyTyrPheTrpTrpGlyArgTyr 168  
251 TCTGGGTCTGCTGGAAACGGGTT 226  
seq\_name: gb\_est13:c44138  
seq\_documentation\_block:  
LOCUS C44138 372 bp mRNA EST 29-AUG-1997  
DEFINITION C elegans clone yk339el : 5' end, single read, mRNA sequence.  
ACCESSION C44138  
KEYWORDS EST; EST (expressed sequence tag); mRNA  
LOCUS C elegans clone yk339el : 5' end, single read, mRNA sequence.  
ACCESSION C44138  
NID 93280375  
SOURCE Caenorhabditis elegans (strain N2) embryo hermaphrodite embryo cDNA  
to mRNA, clone lib:yuji Kohara unpublished cDNA library  
clone:yk339el.  
ORGANISM Caenorhabditis elegans  
Eukaryota; Metazoa; Nematoidea; Secernentia; Rhabditida; Rhabditina; Rhabditidae; Peloderaidae; Caenorhabditis.  
REFERENCE Kohara,Y., Motohashi,T., Tabara,H., Shin-i,T., Watanabe,H., Sano,M., Miyata,A., Ohba,T., Mitani,Y., Uesugi,H., Sugiyama,I., Obara,M., Sugimoto,A., Iida,K. and Nishikawa,A.  
TITLE Unpublished map of the C.elegans genome  
JOURNAL Unpublished (1997)  
COMMENT Contact: Marra M/Mouse EST Project  
WashU-HHMI Mouse EST Project  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: mouseest@wustl.edu  
This clone is available royalty-free through LBNL; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
MGI:455311  
Seq primer: -28m13 rev2 ET from Amersham  
High Quality sequence stop: 432.  
Location/Qualifiers  
FEATURES source  
1. .548  
/organism="Mus musculus"  
/note="vector: pRT2D-Pac (Pharmacia) with a modified  
polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA  
was primed with a Not I - oligo(dT) primer [5'-TTTACCATGGGATCCGCGCAATTGTTTGTGTT-3'];  
double-stranded cDNA was ligated to Eco RI adaptors  
(Pharmacia), digested with Not I and cloned into the Not I  
and Eco RI sites of the modified pRT13 vector. Library  
constructed and normalized by Bentol Soares and M.Fatima  
Bonaldo."  
/clone="719815"  
/clone\_lib="Soares mouse NML"  
FEATURES source  
1. .372  
/organism="Caenorhabditis elegans"  
/strain="N2"  
/db\_xref="taxon:6239"  
/clone="yk339el"  
/clone\_lib="Soares mouse NML"





seq\_name: N\_Geneseq\_34:Q12745  
 seq\_documentation\_block:  
 ID Q12745 standard; DNA: 639 BP.  
 AC 012746;  
 DT 27-SEP-1991 (first entry)  
 DE B.burgdorferi strain PKO pKO gene.  
 KW lyme borreliosis; vaccine; flagellin; ss.  
 OS Borrelia burgdorferi.  
 PN WO9109810-A.  
 PD 11-JUL-1991.  
 PF 21-DEC-1990; E02282.  
 PT 22-DBC-1989; DE-942728.  
 PR 13-JUN-1990; DE-018988.  
 PA (MIKRF-) MIKROGEN MOLEKULARB.  
 PI FUCHS R., WILKE B., PREAC-MURSIC V., MOTZ M., SOUTSCHEK E.;  
 DR WPI: 91-22844/30.  
 P-PSDB; R13140.  
 PT New Borrelia burgdorferi proteins - useful as immunoassay  
 reagents and antigens for vaccine prodn.  
 Example 3; Page 26; 68pp; German.  
 Protein PC was isolated from a B.burgdorferi cell lysate and  
 digested with trypsin. The amino acid sequence of two tryptic  
 fragments was determined. Probe pools corresponding to each  
 fragment were synthesised and used to screen a B.burgdorferi cDNA  
 library. A clone contg. the 639 nucleotides of the pc coding  
 sequence was identified and sequenced. The protein sequence  
 decoded from this coding sequence does not correspond to the amino  
 acid sequence printed in the specification (R13140). For the two  
 sequences to correspond, insert an A residue between G(84) and  
 C(85), and delete T(111).  
 see 012744-012747, Q13297-8 and R13139-R13142.  
 Sequence 639 BP; 252 A; 88 C; 116 G; 183 T;  
 CC 29-APR-1994; E01365.  
 PR 29-APR-1993; US 053863.  
 PA (IMMO ) IMMUNO AG.  
 PI Crowe B., Dornier F., Lively I;  
 DR WPI; 94-358273/44.  
 P-PSDB; R60986.  
 PT Immunogenic composition comprising OspC antigens - for the  
 treatment of Lyme borreliosis in different, specific geographical  
 areas.  
 PS disclosure; FIG. 8a: 115pp; English.  
 A vaccine for Lyme disease includes selected OspC antigen  
 formulations based on defined OspC families resolved by serovar  
 typing and RFLP typing. Partial sequences of OspC genes selected  
 from different RFLP types are given in 073883-905 (encoded peptides),  
 comprising the first 92% of mature OspC, are given in 862771-93).  
 Complete sequences of these novel ospC genes, including the 3' end,  
 plus sequences for the ospC genes of Borrelia strains H13 and 2891  
 are given in 073857-82, and encoded proteins in R00884-909. The  
 DNA sequences may be expressed in e.g. *Pichia pastoris* for  
 recombinant antigen production. The  
 Sequence 585 BP; 231 A; 85 C; 110 G; 159 T;  
 SQ

alignment\_scores:  
 Quality: 8.00 Length: 8  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

seq\_name: N\_Geneseq\_34:Q73869  
 seq\_documentation\_block:  
 ID Q73869 standard; DNA: 585 BP.  
 AC 073869;  
 DT 25-MAY-1995 (first entry)  
 DE Borrelia JSB antigen vaccine.  
 KW OspC antigen; vaccine; Lyme disease; borreliosis; immunogen;  
 KW serovar typing; restriction fragment length polymorphism;  
 KW RFLP; *Pichia pastoris*; ss.  
 OS Borrelia burgdorferi JSB.  
 PN WO9425596-A.  
 PD 10-NOV-1994.  
 PR 29-APR-1993; US 053863.  
 PA (IMMO ) IMMUNO AG.  
 PI Crowe B., Dornier F., Lively I;  
 DR WPI; 94-358273/44.  
 P-PSDB; R60986.  
 PT Immunogenic composition comprising OspC antigens - for the  
 treatment of Lyme borreliosis in different, specific geographical  
 areas.  
 PS disclosure; FIG. 8a: 115pp; English.  
 A vaccine for Lyme disease includes selected OspC antigen  
 formulations based on defined OspC families resolved by serovar  
 typing and RFLP typing. Partial sequences of OspC genes selected  
 from different RFLP types are given in 073883-905 (encoded peptides),  
 comprising the first 92% of mature OspC, are given in 862771-93).  
 Complete sequences of these novel ospC genes, including the 3' end,  
 plus sequences for the ospC genes of Borrelia strains H13 and 2891  
 are given in 073857-82, and encoded proteins in R00884-909. The  
 DNA sequences may be expressed in e.g. *Pichia pastoris* for  
 recombinant antigen production. The  
 Sequence 585 BP; 231 A; 85 C; 110 G; 159 T;  
 SQ

alignment\_scores:  
 Quality: 8.00 Length: 8  
 Ratio: 1.000 Gaps: 0  
 Percent Similarity: 100.000 Percent Identity: 100.000

seq\_name: N\_Geneseq\_34:Q73894  
 seq\_documentation\_block:  
 ID Q73894 standard; DNA: 521 BP.

Thu Jul 15 08:10:44 1999

US-08-487-032a-764 x v65261/rev ..

Align seg 1/1 to reverse of: v65261 from: 1 to: 2766

163 PheTrpTrpGlyArgTyrArg 170  
 ||||||| ||||| ||||| |||||  
 2703 TTCTGGTGCGAGATCCAGA 2680

seq\_name: N\_Geneseq\_34:N91093

seq\_documentation\_block:

ID N91093; standard; DNA; 1950 BP.

AC N91093; ..

DT 04-JUL-1990 (first entry)

DE Protein G gene.

KW Protein G; immunoglobulin; Fc receptor; ds.

OS Streptococcus sp.

FT Key -35\_signal Location/Qualifiers

FT FT 465..470 /\*tag= c

FT FT 487..492 /\*tag= b

FT FT 565..571 /\*tag= d

FT FT 578..1918 /\*tag= a

FT PN W08810306-A.

FT PD 29-DEC-1988.

FT PR 20-JUN-1987; 02084.

FT PA 19-JUN-1987; US-063959.

(GENE-) Genex Corp.

PT Fahnestock SR;

DR WPI; 89-023848/03.

P-PSDB; P95030.

PT Cloned protein G variant genes - expressing proteins having immunoglobulin-binding properties of protein G and derived from Streptococcus sp.

PT disclosure; PP; English.

PS Gene encodes protein G of non-pathogenic streptococcus sp. allowing

CC isolation of the protein and variants, useful as bacterial Fc receptors

CC eg in purification and detection of Abs., screening of hybridoma clones

CC and treatment of disease.

SQ Sequence 1950 BP; 705 A; 323 C; 398 G; 524 T;

alignment\_scores:

Quality: 7.00

Ratio: 1.00

Length: 7

Percent Similarity: 100.000 Percent Identity: 100.000

alignment-block:

US-08-487-032a-764 x N91093/rev ..

Align seg 1/1 to reverse of: N91093 from: 1 to: 1950

17 LeuSerSerSerLeuAla 23  
 ||||||| ||||| ||||| |||||  
 1152 TTGTCAAGTTCTCIGTAGCT 1132